



City of Porterville Transit Electrification

The City of Porterville’s project is to commercially implement and administer ten zero-emission transit buses, at a single bus hub (Porterville Transit) and provide daily service on all nine routes of the Porterville Transit System for a period of 28 months. This project will demonstrate the practicality and economic viability of wide-spread adoption of zero-emission heavy-duty transit buses.



Project also includes the purchase and installation of one 200kW opportunity charging station at the Porterville Transit Center, 10 200kW overnight charging stations at the bus maintenance yard, and 45kW PV system at the Porterville Transit Center and bus maintenance facility.

Dates: 12/05/2016 – Summer 2020
Grantee: City of Porterville
Partners: GreenPower Motor Company
San Joaquin Valley Air Pollution
Control District
Southern California Edison

Grant Amount:
CARB Contribution: \$9,516,422
Matching Funds: \$7,437,280
Project Total: \$16,953,702

Vehicles/Equipment Funded

GreenPower Motor Company EV350 Transit Bus

- 430kW battery capacity
- 40 foot ADA accessible low-floor transit bus
- I/O Controls G4 System

BTCPower Charging Stations

- Modular Level 4 DCFC
- 200kW
- Liquid Cooled Connectors
- SAE CCS-1

Lessons Learned

- Design and construction of charging station infrastructure much more complex than original estimated.
- Battery technology and density improving quickly, with approximately 10+kW from each bus delivery.
- Operator behavior and environmental conditions can have a large effect on transit bus range.

Status Updates

- Eight of ten buses have been delivered.
- Buses started daily revenue service on October 3, 2018.
- Charging Station Infrastructure designed and under construction by Southern California Edison.

